

OCT 26 2005

Attorney Docket No: NSL-014

**In the United States Patent and Trademark Office**

Application No.: 10/698,988  
Filed: October 31, 2003  
Title: INORGANIC/ORGANIC HYBRID NANOLAMINATE  
BARRIER FILM  
Applicant: Brian M. Sager et al.  
Examiner: Marc A. Patterson  
Art Unit 1772

I hereby certify that this  
correspondence is being  
facsimile transmitted to the  
United States Patent and  
Trademark Office (571) 273 8300

Date of Transmission: 10/26/2005

Signature

Name of Person Signing

**Information Disclosure Statement**

Commissioner of Patents and Trademarks  
Washington, District of Columbia 20231

Dear Sir or Madam:

Attached is a completed Form PTO-1449 and copies of the pertinent parts of the references cited thereon.  
It is requested that the document(s) on the enclosed form be made of record. As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.  
It is requested that the document(s) on the enclosed form be made of record.

**Part I (Authority)**

This statement is filed pursuant to:

(X) 37 C.F.R. § 1.97(b).

This information disclosure statement is filed either (1) within three months of the filing date of the national applications; (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application; (3) before the mailing date of a first office action on the merits; or (4) before the mailing of a first Office action after the filing of a request for continued examination under §1.114, whichever event occurs last. Accordingly, this information disclosure statement requires no fee and no certification.

( ) 37 C.F.R. § 1.97(c).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(b), but before the mailing date of either (1) a final action under 37 C.F.R. § 1.113 or (2) a notice of allowance under 37 C.F.R. § 1.311.

Accordingly, this information disclosure statement requires either the fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) (\$180), or a certification according to 37 C.F.R. § 1.97(e).

( ) 37 C.F.R. § 1.97(d).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(c). Accordingly, this information disclosure statement requires the petition fee specified in 37 C.F.R. § 1.17(p) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) (\$180) and a certification according to 37 C.F.R. § 1.97(e).

**Conditional Petition**

It is respectfully requested that this information disclosure statement be considered, good cause being presented in Part III herein (certification). Please treat this paper as the required petition.

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. § 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record.

To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.

**Part II (Payment)**

A credit card payment form (PTO-2038) is enclosed as indicated:

- (X) No fee is due.
- ( ) The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) is enclosed (\$180).
- ( ) The petition fee specified in 37 C.F.R. § 1.17(p) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) is enclosed (\$180).

**Part III (Certification)**

Pursuant to 37 C.F.R. § 1.97(e), I certify:

- (X) No certification is necessary.
- ( ) (1) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement.
- ( ) The "communication from a foreign patent office" referred to in the certification is an International Search Report, possibly issued by the U.S. Patent and Trademark Office in its capacity as an International Search Authority or International Preliminary Examining Authority.
- ( ) The "counterpart foreign application" referred to in the certification corresponds to an ancestor or descendent application of the application for which this information disclosure statement is filed.
- ( ) (2) No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c), more than three months prior to the filing of the statement.

**Part IV (Additional Statement)**

An additional statement regarding these items of information ( ) is, (X) is not, enclosed.

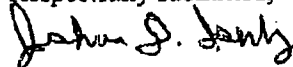
Copies of the cited art references A, B (X) are enclosed,

Copies of the cited art references \_\_\_\_\_ ( ) are of record in parent application Serial No. \_\_\_\_\_ and will be provided if the Examiner deems it convenient.

Copies of the cited art references \_\_\_\_\_ (X) are not required under 37 CFR 1.98(a)(2)(i) because they are U.S. Patents and/or U.S. Patent Publications.

Dated: 10/26/2005

Respectfully submitted,



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Sheet 1 of 1

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE				AGENT. DOCKET NO. NSL-014		SERIAL NO. 10/698,988	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Brian M. Sager et al.			
				FILING DATE October 31, 2003		GROUP <del>1772</del> 1782	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
<b>OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
/M.P./	A	"Fabrication and Properties of Nanolaminates"					
/M.P./	B	Abstract of "Microstructural evolution of $ZrO_2-HfO_2$ Nanolaminate Structures Grown by Atomic Layer Deposition" by H. S. Kim, P. C. McIntyre, and K. C. Saraswat, from the <u>Journal of Materials Research</u> , vol. 19, no. 2, February 2004, pp 643-650					
<b>EXAMINER</b> /Marc Patterson/				<b>DATE CONSIDERED</b> 03/20/2012			
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							